

WHAT IS CLAIMED IS:

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1. Fluid product dispenser comprising:
 - a fluid product tank (2),
 - a dispenser part comprising a pierced membrane (3) connected directly to the tank (2),
- 5 - vibration means (34) to vibrate the pierced membrane (3)
- an actuator button (9) to activate the vibration means,
- under normal operating conditions, the tank (2) being located above the pierced membrane (3) such that the fluid product is supplied to the membrane from the tank using the force of gravity, wherein the membrane (3) is connected to
- 10 the tank (2) by a passage (27) provided with an inlet valve capable (4) of opening and cutting off the passage (27) selectively.
2. Dispenser of claim 1 including a bottom (11) that is intended to come into contact in the rest position with a surface that is more or less horizontal, the tank (2) then being located above the vibrating membrane (3).
- 15 3. Dispenser of claim 1, wherein the vibration means (34) and inlet valve (4) are electrically controlled.
4. Dispenser of claim 1, wherein inlet valve (4) is open when the vibration means (34) are actuated.
5. Fluid product dispenser comprising:
 - 20 - a fluid product tank (2),
 - a dispenser part comprising a pierced membrane (3) connected directly to the tank (2),
 - vibration means (34) to vibrate the pierced membrane (3)
 - an actuator button (9) to activate the vibration means,
 - 25 under normal operating conditions, the tank (2) being located above the pierced membrane (3) such that the fluid product is supplied to the membrane from the tank using the force of gravity, wherein the tank (2) comprises an upper section (21) provided with a venting passage (92).

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6. Dispenser of claim 5, wherein the venting passage (92) comprises a part made of a porous material (91).

7. Dispenser of claim 6, wherein the actuator button (9) masks the part made of a porous material (91).

5 8. Dispenser of claim 5, wherein the actuator button (9) is located in the upper section (21) of the tank (2), the venting passage (92) being formed around the actuator button between the actuator button (9) and the upper section (21) of the tank (2).

9. Fluid product dispenser comprising:

10 - a fluid product tank (2),
 - a dispenser part comprising a pierced membrane (3) connected directly to the tank (2),

 - vibration means (34) to vibrate the pierced membrane (3)

 - an actuator button (9) to activate the vibration means,

15 under normal operating conditions, the tank (2) being located above the pierced membrane (3) such that the fluid product is supplied to the membrane from the tank using the force of gravity, wherein the pierced membrane (3) constitutes a part of the surface of the tank (2).

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